What is claimed is:

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- 1. An isolated C3 binding region from the Staphylococcus aureus Efb protein having the ability to inhibit complement activation.
- 2. The C3 binding region of Claim 1 wherein the binding region is located at the C-terminal end of the Efb protein.
- 3. The C3 binding region of Claim 1 wherein the C3 binding region has an amino acid sequence of from amino acid 97 to 165 of the *S. aureus* Efb protein.
 - 4. A pharmaceutical composition comprising the C3 binding region of Claim 1 and a pharmaceutically acceptable vehicle, carrier or excipient.
- 5. The pharmaceutical composition of Claim 4 wherein the C3 binding region is present in an amount effective to inhibit complement activation.
 - 6. An isolated antibody that recognizes the C3 binding region according to Claim 1.
 - 7. Isolated antisera containing the antibody according to Claim 6.
 - 8. A diagnostic kit comprising an antibody according to Claim 6 and means for detecting binding by that antibody.
 - 9. A diagnostic kit comprising the C3 binding region according to Claim 1 and means for detecting binding to said protein fragment.

- 10. A method of diagnosing an infection of *S. aureus* comprising adding an antibody according to Claim 6 to a sample suspected of being infected with *S. aureus*, and determining if antibodies have bound to the sample.
- 5 11. A pharmaceutical composition comprising the antibody of Claim 6 and a pharmaceutically acceptable vehicle, carrier or excipient.
 - 12. A method of inducing an immunological response comprising administering to a human or animal an immunogenic amount of an isolated C3 binding region according to claim 1.
 - 13. An isolated nucleic acid coding for the C3 binding region according to Claim 1.
 - 14. The C3 binding region according to Claim 1 which is produced by recombinant means.
 - 15. A vaccine comprising the C3 binding region of Claim 1 in an amount effective to elicit an immune response, and a pharmaceutically acceptable vehicle, carrier or excipient.
 - 16. A method of inhibiting complement activity in a human or animal patient comprising administering to the patient the C3 binding region of Claim 1 in an amount effective to inhibit complement activity.
 - 17. The method of Claim 16, wherein the C3 binding region is administered in the form of a pharmaceutical composition comprising the C3 binding region in an amount effective to inhibit complement activation and a pharmaceutically acceptable carrier.

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- 18. A method of inhbiting complement activation in a human or animal patient in need of such inhibition comprising administering to the patient the Efb protein of *Staphylococcus aureus* or the C3 binding region of the Efb protein of *Stahpylococcus aureus* in an amount effective to inhibit complement activity.
- 19. The method of Claim 18, wherein the Efb protein or C3 binding region is administered in the form of a pharmaceutical composition comprising the Efb protein or C3 binding region in an amount effective to inhibit complement activation and a pharmaceutically acceptable carrier.
- 20. A pharmaceutical composition comprising the *S. aureus* Efb protein or the C3 binding region of the *S. aureus* Efb protein in an amount effective to inhibit complement activation, and a pharmaceutically effective vehicle, carrier or excipient.
- 21. A method of treating or preventing hemolytic anemia in a human or animal patient in need of said treatment comprising administering to the patient the Efb protein of *S. aureus* or the C3-binding region of the Efb protein of *S. aureus* in an amount effective to inhibit complement activation.
- 22. The method of Claim 21, wherein the Efb protein or the C3 binding region of the Efb protein is administered in the form of a pharmaceutical composition comprising the protein or binding region in an amount effective to inhibit complement activation and a pharmaceutically acceptable vehicle, carrier or excipient.
- 23. A method of reducing the induction of complement activation by a biological or prosthetic tissue or organ implant comprising coating the implant with an
 30 Efb protein or the C3 binding region of the Efb protein in an amount effective to

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inhibit complement activation when the implant is implanted into a human or animal patient.

- 24. A method of inducing an immunological response comprising administering to a patient an immunologically effective amount of the C3 binding region of the Staphylococcus epidermidis Efb protein.
 - 25. The method of inhibiting complement activation according to Claim 18 wherein said method is used to inhibit complement activation during a process intended to reduce the likelihood of rejection of a graft or implant.
 - 26. The method of inhibiting complement activation according to Claim 18 wherein said method is used to inhibit complement activation during a kidney dialysis process.
 - 27. The method of inhibiting complement activation according to Claim 26 wherein said method is used to inhibit complement activation during hemodialysis.